| | Application No. | Applicant(s) | 75 |
|---|--|--|-----------------|
| | | | |
| Notice of Allowability | 09/653,023 Examiner | OLIENSIS, JOHN Art Unit | |
| | | | |
| | Virginia M Kibler | 2623 | |
| The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in or other appropriate commit GHTS. This application is s | n this application. If not included unication will be mailed in due cour | se. THIS |
| 1. This communication is responsive to <u>9/7/04</u> . | | | |
| 2. The allowed claim(s) is/are 33-42 (renumbered 1-10). | | × | |
| 3. \boxtimes The drawings filed on <u>01 September 2000</u> are accepted by | the Examiner. | | |
| 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | been received. been received in Application | on No | from the |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | a reply complying with the require | ments |
| 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | DE OF |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspers | son's Patent Drawing Review | v (PTO-948) attached | |
| 1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | s Amendment / Comment o | r in the Office action of | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | | k) of |
| 7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT | | | the |
| | | | |
| Attachment(s) 1. Notice of References Cited (PTO-892) | 5. ☐ Notice of In | formal Patent Application (PTO-15 | 2) |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | | ummary (PTO-413), | , |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 | Paper No. | /Mail Date Amendment/Comment | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit | 8. 🕅 Examiner's | Statement of Reasons for Allowan | ice |
| of Biological Material | 9. Other | | |
| 111 | * | (1) | |
| | | | |
| | | | |
| | | | |

Application/Control Number: 09/653,023

Art Unit: 2623

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Benjamin S. Lee (Reg. No. 42,787) on October 20, 2004.

The application has been amended as follows:

In the claims:

Claims 1[[17]]-32 (cancelled).

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: the instant invention replaces the known methods for recovering 3D structure and camera motion including reconstructing the scene from previously computed feature correspondences, usually tracked points, or reconstructing from the image intensities without a separate stage of correspondence computation. The essential difference from the prior art is that the instant invention reconstructs from both point and line features by constructing rotational flow vectors derived from a set of

Application/Control Number: 09/653,023

Art Unit: 2623

tracked points and a set of tracked lines. The rotational flow vectors derived from the set of tracked lines are represented by projections in two directions that take into account differences in noise of a measured line in different directions. Therefore, the instant inventions advantageously takes into account the effects of noise on projections in what are referred to as an upper and lower direction. These features in combination with the other elements of the claims are not disclosed or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Virginia M Kibler whose telephone number is (703) 306-4072. The examiner can normally be reached on Mon-Thurs 8:00 - 5:30 and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Virginia Kibler can be reached on (703) 306-4072. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/653,023

Art Unit: 2623

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Virginia Kibler 10/25/04

MEHRDAD DASTOURI PRIMARY EXAMINER

Mchrdad Dastoni